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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/068,001	02/08/2002	Billy Hogan	2380-604	6407
23117	7590	11/07/2006	EXAMINER	
NIXON & VANDERHYE, PC 901 NORTH GLEBE ROAD, 11TH FLOOR ARLINGTON, VA 22203			NGUYEN, KHAI MINH	
			ART UNIT	PAPER NUMBER
			2617	

DATE MAILED: 11/07/2006

Please find below and/or attached an Office communication concerning this application or proceeding.

<b>Office Action Summary</b>	<b>Application No.</b> 10/068,001	<b>Applicant(s)</b> HOGAN ET AL.	
	<b>Examiner</b> Khai M. Nguyen	<b>Art Unit</b> 2617	

**-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --**

**Period for Reply**

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

**Status**

- 1) ☒ Responsive to communication(s) filed on 9/8/2006.
- 2a) ☐ This action is **FINAL**.                      2b) ☒ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

**Disposition of Claims**

- 4) ☒ Claim(s) 1-19, 42-72 and 87-89 is/are pending in the application.
- 4a) Of the above claim(s) \_\_\_\_\_ is/are withdrawn from consideration.
- 5) ☐ Claim(s) \_\_\_\_\_ is/are allowed.
- 6) ☒ Claim(s) 1-4, 15, 16, 42-45, 50, 51, 54-57, 66-68 and 87-89 is/are rejected.
- 7) ☒ Claim(s) 5-14, 17-19, 46-49, 52, 53, 58-65 and 69-72 is/are objected to.
- 8) ☐ Claim(s) \_\_\_\_\_ are subject to restriction and/or election requirement.

**Application Papers**

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☐ The drawing(s) filed on \_\_\_\_\_ is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.  
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).  
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

**Priority under 35 U.S.C. § 119**

- 12) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☐ All    b) ☐ Some \*    c) ☐ None of:
1. ☐ Certified copies of the priority documents have been received.
2. ☐ Certified copies of the priority documents have been received in Application No. \_\_\_\_\_.
3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

\* See the attached detailed Office action for a list of the certified copies not received.

**Attachment(s)**

- |  |   |
|--|---|
| 1) <input checked="" type="checkbox"/> Notice of References Cited (PTO-892)          | 4) <input type="checkbox"/> Interview Summary (PTO-413)           |
| 2) <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948) | Paper No(s)/Mail Date. _____                                      |
| 3) <input type="checkbox"/> Information Disclosure Statement(s) (PTO/SB/08)          | 5) <input type="checkbox"/> Notice of Informal Patent Application |
| Paper No(s)/Mail Date _____  | 6) <input type="checkbox"/> Other: _____                          |

## DETAILED ACTION

### Response to Arguments

1. Applicant's argument with respect to claim 1-19, 42-72 and 87-89 have been considered but are moot in view of the new ground(s) of rejection.

### ***Claim Rejections - 35 USC § 103***

2. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

Claims 1-4, 15-16, 42-45, 50-51, 54-57, 66-68 and 87-89 are rejected under 35 U.S.C. 103(a) as being unpatentable over Koo et al. (U.S.Pat-6889040) in view of Korpela, Mikko (EP-0888026).

Regarding claim 1, Koo teaches a telecommunications network comprising a radio access network which generates and transmits (fig.1), in a broadcast channel over an air interface (fig.1, element 14, 16), an access group eligibility message which enables a user equipment unit (fig.1, mobile station 12) which receives the access group eligibility message to make a determination whether the user equipment unit is eligible to operate in a cell for which the access group eligibility message is transmitted (fig.1-2, abstract, col.1, lines 48-54), the determination involving a comparison of access group eligibility information transmitted in the access group message and an access group classification (fig.1-2, abstract, col.1, lines 48-54)

Koo fails to specifically disclose the access group classification having been generated by a core network node, which classified the user equipment unit into at least one of plural access groups. However, Korpela teaches the access group classification having been generated by a core network node, which classified the user equipment unit into at least one of plural access groups (fig.1, mobile station 15, networks 12 and 13 are UMTS, networks 14 and 11 are GSM, page 2, lines 18-43). Therefore, it would have been obvious to one having ordinary skill in the art at the time the invention was made to apply the teaching of Korpela with Koo to provide a method for relating to the selection of a cell in a situation where there are cells with different qualities of service available.

Regarding claim 2, Korpela and Koo further teach the apparatus of claim 1, wherein the access group eligibility message indicates what subscriber groups are eligible to operate in the cell for which the access group eligibility message is transmitted (see Koo, fig.1-2, abstract, col.1, lines 48-54).

Regarding claim 3, Korpela and Koo further teach the apparatus of claim 1, wherein the access group eligibility message indicates what restriction groups are not eligible to operate in the cell for which the access group eligibility message is transmitted (see Koo, abstract, see Korpela, fig.1, mobile station 15, networks 12 and 13 are UMTS, networks 14 and 11 are GSM, page 2, lines 18-43).

Regarding claim 4, Korpela and Koo further teach the apparatus of claim 1, wherein the access group eligibility message includes a bitmap which indicates eligibility for plural access groups (see Koo, fig.2, col.2, lines 31-60).

Regarding claim 15, Korpela and Koo further teach the apparatus of claim 1, wherein the access group classification message is one of a location update response (see Korpela, fig.2b and table 2, page 6, lines 33-42) and a location update reject message (see Korpela, fig.2b and table 2, page 6, lines 33-42), which includes the access group classification (see Korpela, fig.2b and table 2, page 6, lines 33-42).

Regarding claim 16, Korpela and Koo further teach the apparatus of claim 1, wherein the access group classification message is one of a location update response (see Korpela, fig.1, mobile station 15, networks 12 and 13 are UMTS, networks 14 and 11 are GSM, page 2, lines 18-43) and a location update reject message which includes the access group classification and a version field associated with the access group classification (see Korpela, fig.1, mobile station 15, networks 12 and 13 are UMTS, networks 14 and 11 are GSM, page 2, lines 18-43).

Regarding claim 42, Koo teaches a user equipment unit which receives over an air interface an access group classification message (fig.1) and an access group eligibility message (fig.1, element 14, 16, abstract), the access group classification message being generated by a core network node for advising the user equipment unit (fig.1, mobile station 12) as to which of the plural access groups the user equipment unit belongs (fig.1-2, abstract, col.1, lines 48-54), the access group eligibility message being

generated by a radio access network node for specifying eligibility of plural access groups to operate in a cell for which the access group eligibility message is transmitted (fig.1-2, abstract, col.1, lines 48-54), the user equipment unit comprising:

compares the stored access group classification with contents of the access group eligibility message to determine whether the user equipment unit is allowed access to the cell for which the access group eligibility message is transmitted (fig.1-2, abstract, col.1, lines 48-54).

Koo fails to specifically disclose an access controller, which stores an access group classification obtained from the access group eligibility message. However, Korpela teaches an access controller, which stores an access group classification obtained from the access group eligibility message (fig.1, mobile station 15, networks 12 and 13 are UMTS, networks 14 and 11 are GSM, page 2, lines 18-43). Therefore, it would have been obvious to one having ordinary skill in the art at the time the invention was made to apply the teaching of Korpela with Koo to provide a method for relating to the selection of a cell in a situation where there are cells with different qualities of service available.

Regarding claim 43, Korpela and Koo further teach the apparatus of claim 42, wherein the access group eligibility message indicates what subscriber groups are eligible to operate in the cell for which the access group eligibility message is transmitted (see Koo, fig.1-2, abstract, col.1, lines 48-54).



Regarding claim 44, Korpela and Koo further teach the apparatus of claim 42, wherein the access group eligibility message indicates what restriction groups are not eligible to operate in the cell for which the access group eligibility message is transmitted (see Korpela, fig.1, mobile station 15, networks 12 and 13 are UMTS, networks 14 and 11 are GSM, page 2, lines 18-43).

Regarding claim 45, Korpela and Koo further teach the apparatus of claim 42, wherein the access group eligibility message includes a bitmap which indicates eligibility for plural access groups (see Koo, fig.2, col.2, lines 31-60).

Regarding claim 50, Korpela and Koo further teach the apparatus of claim 42, wherein the access group classification message is one of a location update response (see Korpela, fig.1, mobile station 15, networks 12 and 13 are UMTS, networks 14 and 11 are GSM, page 2, lines 18-43) and a location update reject message which includes the access group classification (see Korpela, fig.1, mobile station 15, networks 12 and 13 are UMTS, networks 14 and 11 are GSM, page 2, lines 18-43).

Regarding claim 51, Korpela and Koo further teach the apparatus of claim 42, wherein the access group classification message includes the access group classification (see Korpela, fig.1, mobile station 15, networks 12 and 13 are UMTS, networks 14 and 11 are GSM, page 2, lines 18-43) and a version field associated with the access group classification (see Korpela, fig.1, mobile station 15, networks 12 and 13 are UMTS, networks 14 and 11 are GSM, page 2, lines 18-43).

Regarding claim 54, Koo teaches a method of operating a telecommunications network comprising:

Transmitting (fig.1, base station 10, mobile station 12), in a broadcast channel over an air interface (fig.1), an access group eligibility message generated by a radio access network (fig.1-2, abstract);

a user equipment unit (fig.1, mobile station 12) which receives the access group eligibility message (fig.1-2, abstract) and which user the access group eligibility message to make determination whether the user equipment unit (fig.1, mobile station 12) is eligible to operate in a cell for which the access group eligibility message is transmitted (fig.1-2, abstract), involving a comparison of access group eligibility information transmitted in the access group message (fig.1-2, abstract) and

Koo fails to specifically disclose an access group classification, which is generated by a core network. However, Korpela teaches an access group classification which is generated by a core network (fig.1, mobile station 15, networks 12 and 13 are UMTS, networks 14 and 11 are GMS, page 2, lines 18-43). Therefore, it would have been obvious to one having ordinary skill in the art at the time the invention was made to apply the teaching of Korpela with Koo to provide a method for relating to the selection of a cell in a situation where there are cells with different qualities of service available.

Regarding claim 55, Korpela and Koo further teach the method of claim 54, further comprising including in the access group eligibility message an indication of what



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subscriber groups are eligible to operate in the cell for which the access group eligibility message is transmitted (see Koo, fig.1-2, col.1, lines 48-54).

Regarding claim 56, Korpela and Koo further teach the method of claim 54, further comprising including in the access group eligibility message an indication of what restriction groups are not eligible to operate in the cell for which the access group eligibility message is transmitted (see Koo, abstract, see Korpela, fig.1, mobile station 15, networks 12 and 13 are UMTS, networks 14 and 11 are GSM, page 2, lines 18-43).

Regarding claim 57, Korpela and Koo further teach the method of claim 54, further comprising including in the access group eligibility message a bitmap which indicates eligibility for plural access groups (see Koo, fig.2, col.2, lines 31-60).

Regarding claim 66, Korpela and Koo further teach the method of claim 54, further comprising:

upon the user equipment unit entering a new cell which involves a transition to a new location area (see Korpela, fig.1, mobile station 15, networks 12 and 13 are UMTS, networks 14 and 11 are GSM, page 2, lines 18-43), checking the access group eligibility message transmitted for the new cell (see Korpela, fig.1, mobile station 15, networks 12 and 13 are UMTS, networks 14 and 11 are GSM, page 2, lines 18-43); and

comparing the stored access group classification with contents of the access group eligibility message to determine whether the user equipment unit is allowed access to the new cell (see Koo, abstract, see Korpela, abstract, fig.1, mobile station 15, networks 12 and 13 are UMTS, networks 14 and 11 are GSM, page 2, lines 18-43).

Regarding claim 67, Korpela and Koo further teach the method of claim 66, further comprising, upon the user equipment unit entering a new cell which does not involve a transition to a new location area (see Korpela, abstract, fig.1, mobile station 15, networks 12 and 13 are UMTS, networks 14 and 11 are GSM, page 2, lines 18-43), the user equipment unit not checking the access group eligibility message (see Korpela, abstract, fig.1, mobile station 15, networks 12 and 13 are UMTS, networks 14 and 11 are GSM, page 2, lines 18-43).

Regarding claim 68, Korpela and Koo further teach the method of claim 54, wherein the access group classification message is one of a location update response (see Korpela, fig.2b and table 2, page 6, lines 33-42) and a location update reject message which includes the access group classification (see Korpela, fig.2b and table 2, page 6, lines 33-42).

Regarding claims 87-89, Korpela and Koo further teach the apparatus of claims 1, 42 and 54, where the access group eligibility information comprises a subscriber group having a composition pre-agreed with a network operator (see Korpela, fig.1, mobile station 15, networks 12 and 13 are UMTS, networks 14 and 11 are GSM, page 2, lines 18-43).

### ***Conclusion***

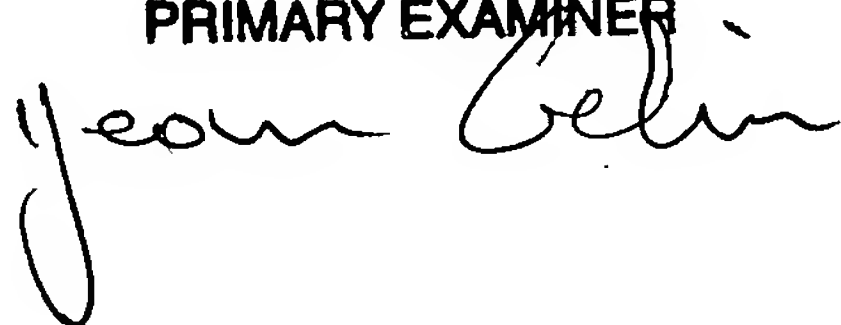
3. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Khai M. Nguyen whose telephone number is 571.272.7923. The examiner can normally be reached on 8:00-5:00.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Joseph Feild can be reached on 571.272.4090. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

Khai Nguyen  
Au: 2617

JEAN GELIN  
PRIMARY EXAMINER



10/31/2006